

**AMENDMENTS TO THE SPECIFICATION:**

At page 3, replace the paragraph beginning at line 24 and continuing to line 26 with the following:

However, as an alternative, it is also possible for the electric measuring electrode arrangement to have a common electric shield for all the measuring electrodes, whereby the common shield is preferably being applied to ground potential.

At page 4, replace the paragraph beginning at page 3, line 30 and continuing to page 4, line 2 with the following:

In a preferred exemplary embodiment, the individual measuring electrodes are arranged on a belt-shaped electrode carrier, whereby the electrode carrier is stretchable for adjusting the electrode spacing. Finally, this invention also includes the use of the inventive measuring electrode arrangement in ~~electro-impedance tomog-raphy~~ electroimpedance tomography.